

PMP7931 BOM

Designator	Description	Manufacturer	PartNumber	Quantity
C1	CAP, CERM, 100pF, 1000V, +/-10%, X7R, 1206	Vishay-Vitramon	VJ1206Y101KXGAT5Z	1
C2	CAP, AL, 150uF, 63V, +/-20%, 0.16 ohm, SMD	Panasonic	EEV-FK1J151Q	1
C3	CAP, AL, 150uF, 63V, +/-20%, 0.16 ohm, SMD	Panasonic	EEV-FK1J151Q	1
C4	CAP, CERM, 1uF, 50V, +/-10%, X7R, 1206	MuRata	GRM31MR71H105KA88L	1
C5, C6, C7, C8	CAP, CERM, 10uF, 25V, +/-10%, X7R, 1206	MuRata	GRM31CR71E106KA12L	4
C9	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0805	TDK	C2012X5R1E105K	1
C10, C12, C15, C16, C17	Capacitor	TDK	C2012Y5V1H105Z	5
C11	CAP, CERM, 10uF, 25V, +/-10%, X5R, 1206	MuRata	GRM31CR61E106KA12L	1
C13	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	MuRata	GRM188R61C105KA93D	1
C14	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	Kemet	C0603C104K3RACTU	1
C18	CAP, CERM, 0.22uF, 25V, +/-10%, X5R, 0603	MuRata	GRM188R61E224KA88D	1
D1	Diode, Ultrafast, 100V, 0.15A, SOD-123	Diodes Inc.	1N4148W-7-F	1
D2	Diode, Ultrafast, 600V, 3A, SMC	ON Semiconductor	MURS360T3	1
D3	Diode, Zener, 39V, 550mW, SMB	ON Semiconductor	1SMB5939BT3G	1
D4	Diode, Schottky, 30V, 0.2A, SOD-323	ON Semiconductor	BAT54HT1G	1
D5	Diode, Schottky, 100V, 1A, SMB	ON Semiconductor	MBRS1100T3G	1
D6, Dx1	Diode, Schottky, 30V, 0.2A, SOD-323	ON Semiconductor	BAT54HT1G	2
D7	Diode, Zener, 12V, 500mW, SOD-123	Vishay-Semiconductor	MMSZ4699-V	1
Q1	MOSFET, N-CH, 60V, 50A, PG-TDSON-8	Infineon Technologies	BSC067N06LS3 G	1
R1, R7, R10, R12, R15	Resistor	Panasonic	ERJ-6GEYJ102V	5
R2, R4	RES, 3.32 ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW12063R32FKEA	2
R3	RES, 46.4k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060346K4FKEA	1
R5, R9	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	2
R6	RES, 10.0k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080510K0FKEA	1
R8	RES, 3.01 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06033R01FKEA	1
R11	RES, 49.9k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060349K9FKEA	1
R13	RES, 3.16k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06033K16FKEA	1
R14	RES, 37.4k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060337K4FKEA	1
T1	1 Input 2 Output XFMR	Used in BOM report	Used in BOM report	1
U1	100V Current Mode PWM Controller	Texas Instruments	LM5022	1
U2	Current Sense Transformer	Ice Components	CT02-100	1
U3	Optoisolator			1
U4	Low-Voltage (1.24V) Adjustable Precision Shunt Regulator, 5-pin SOT-23	Texas Instruments	LMV431ACM5	1
Vin 12V, Vout 50V at 0.8A max	Terminal, Turret, TH, Double	Keystone Electronics		2

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